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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,955	06/15/2006	Hideji Wakabayashi	292584US2PCT	1483
22850 7590 03/19/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			CHAKOUR, ISSAM	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			03/19/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/582,955	WAKABAYASHI, HIDEJI			
Office Action Summary	Examiner	Art Unit			
	ISSAM CHAKOUR	2617			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 15 Ju This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 11-26 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 11-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 15 June 2006 is/are: a)	vn from consideration. r election requirement. r.	by the Examiner.			
 10) ☐ The drawing(s) filed on 15 June 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/15/2006;01/03/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 11, 13, 14, 16, 17, 19, 20, and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (Kim, USPPA 2003/0119452) in view of Vadgama (USPPA 2003/0083069).
- 4. Consider claims 11, 14, 17, 20, 23, and 25, Kim discloses a communications method, mobile station, and its corresponding system relating to a multimedia broadcast multicast service (MBMS) of multicasting or broadcasting a multimedia data to a plurality of mobile stations in a communications system (See [0011]), said communications method comprising:

a service information transmitting step of transmitting service information indicating a state of an MBMS service in each of the given cells (See [0299], lines 5-8 and [0143],

lines 4-8);

a service information receiving step of receiving the service information transmitted in said service information transmitting step (See [0076], lines 9-11 and [0078] lines 7-10); and

a cell selecting step of acquiring a set including a plurality of cells from which a mobile station can receive an MBMS on the basis of the information about said power ratio which is received in said power ratio receiving step, and said service information received in said service information receiving step (See [0076] lines 4-9).

Kim does not teach explicitly a power ratio transmitting step of transmitting information about a power ratio between a power of a common control physical channel used for multicasting or broadcasting said multimedia data in each of given cells and a power of a common pilot channel used for transmitting an information on reference of timing in each of the given cells;

a power ratio information receiving step of receiving the information about the power ratio transmitted in said power ratio transmitting step;

However, Vadgama discloses a power ratio transmitting step of transmitting information about a power ratio between a power of a common control physical channel used for multicasting or broadcasting said multimedia data in each of given cells (See [0105] lines 2-6, note that control channel can be used in the ratio as disclosed by Vadgama in lines 7-8 of [0105]) and a power of a common pilot channel used for transmitting an information on reference of timing in each of the given cells (See [0021] lines 5-7); a power ratio information receiving step of receiving the information about the power

ratio transmitted in said power ratio transmitting step (the step is inherent in Vadgama's invention as the transmission of power ratio information entails correspondingly the reception element);

It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute in Kim's invention the feature of estimating channel quality information with the power ratio information as taught by Vadgama in order to assure proper cell selection based on best available MBMS service corresponding to a satisfactory power ratio.

5. Regarding claims 13, 16, 19, 22, 24 and 26, Kim in view of Vadgama discloses the communications method, the mobile station, and its corresponding system according to Claims 11, 14, 17, 20, 23, and 25 respectively, Kim in view of Vadgama as mentioned above teaches

receiving power ratio information of plurality of cells in said receiving step as well as power of common pilot channel (for pilot measurement see [0099] line 12). Kim does not teach explicitly a ranking step f the plurality of cells on the basis of the information about said power ratio of the cells. Nonetheless, Vagdama discloses such feature wherein a ranking step of ranking or prioritizing the plurality of cells on the basis of the information about said power ratio of the given cells (See [0029] lines 1-8, note that although Vadgam teaches that it may be decided to rank based on signal quality, power ratio as disclosed by Vadgam in [0105] lines 2-6, is analogous to said criterion of signal quality) the plurality of cells included in said set are determined on the basis of the

7.

channel, see [0078], lines 9-10);

ranking determined in said ranking step and predetermined threshold (See [0077], lines 5-7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the additional limitations taught by Vadgama in Kim's invention in order to determine the cells having sufficient signal quality of the MBMS service and by selective combining of cells reduce the overall power requirements on particular serving cells.

- 6. Claims 12, 15, 18 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of Vadgama as applied to claim1 above, and further in view of the applicant provided non-patent literature (Source: NTT DoCoMo, "Selective Combining for MBMS", October, 6th 2003).
- communications method, the mobile station, and its corresponding system according to Claims 11, 14, 17 and 20 respectively, further comprising:

 a decoding step of receiving a signal transmitted using said common control physical channel in each of the plurality of cells included in the set acquired in said cell selecting step, and decoding said signal to acquire a plurality of decoded signals (See [0191], lines 19-20, note that the decoder carries the steps of receiving the common control

Consider claims 12, 15, 18 and 21, Kim in view of Vadgama discloses the

Kim in view of Vadgama does not explicitly teach a selectively-combining step of selecting a signal from the plurality of decoded signals acquired in said decoding step and thereby obtaining an output signal.

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However, applicant provided reference suggests a method in which a selectively-combining step of selecting a signal from the plurality of decoded signals acquired in said decoding step and thereby obtaining an output signal. It would have been obvious to one of ordinary skill in the art to add the limitation as taught by the provided reference in Kim's invention in view of Vadgama because it would mitigate power consuming extended MBMS service on selected cells that have service overload thereby reducing power requirements on said cells.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Seo et al (USPPA 2003/0232622), Kwak et al (USPPA 2003/0088695), Cai et al (USPPA 2004/0229572), Kim et al (USPPA 2004/0087320), Holtzman et al (US Patent 6,760,587), and Black et al (US Patent 6,594,501).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ISSAM CHAKOUR whose telephone number is (571) 270-5889. The examiner can normally be reached on Monday-Thursday (8:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Perez Rafael can be reached on (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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